

## ABSTRACT OF THE DISCLOSURE

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The present invention pertains to a system and method of analyzing gene expression, gene annotation, and sample information in a relational format supporting efficient exploration and analysis, comprising: providing a data warehouse which comprises a gene expression database for storing quantitative gene expression measurements for tissues and cell lines screened using various assays; a clinical database for storing information on bio-samples and donors; and a fragment index for biological properties for DNA fragments; receiving a query regarding gene expression of one or more DNA fragments; determining the level of gene expression of the one or more DNA fragments; correlating the level of gene expression with the clinical database and the fragment index; and displaying the results of said correlation.